

Set	Items	Description
S1	53848	ISOTOPE? OR RADIOACTI? OR RADIONUCLEO? OR PLUTNONIUM OR TR- ANSURANIC OR UF6 OR U308 OR NEPTUNIUM OR PU239 OR PU240 OR NP- 237
S2	19713	LLW OR HLW OR ILW OR S1(2N) (BYPRODUCT? OR WASTE? OR WATER? OR DISCARD? OR CONTAINER? OR DISPOSAL? OR POLLUTION?)
S3	3256388	LEVEL? OR RANGE? OR VALUE? OR LIMIT? OR BOUNDARY OR BOUNDA- RIES OR BOUNDS OR PARAMETER? OR RANGE?
S4	378686	ASSAY? OR REPORT? OR DOCUMENT? OR ANALYSIS
S5	1100410	TEST? OR EVALUAT? OR VERIF? OR CHECK? OR EXAMIN?
S6	953146	FLAG? OR REROUTE? OR ROUTE? OR SEND? OR MARK? OR DELIVER?
S7	18	(FURTHER OR ADVANCED OR PHYSICAL OR SCIENTIFIC OR EXPERT OR INDEPENDENT) () REVIEW?
S8	940	S2 (10N) S3
S9	2	S8 AND (DATA OR S4) (2N) (MANAGE? OR MANIPULAT? OR ADMINIST? OR CONTROL? OR REVIEW? OR SCAN OR SCANNING?)

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200453
(c) 2004 Thomson Derwent

9/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016140682 **Image available**
WPI Acc No: 2004-298558/200428
XRAM Acc No: C04-114670
XRPX Acc No: N04-237046

Radioactive waste processing method, for nuclear power plant, involves providing containers with display of radiation level of decontaminated classified waste stored in each container

Patent Assignee: HITACHI LTD (HITA)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004077162	A	20040311	JP 2002234296	A	20020812	200428 B

Priority Applications (No Type Date): JP 2002234296 A 20020812

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2004077162 A 18 G21F-009/36

Abstract (Basic): JP 2004077162 A

NOVELTY - The **radioactive wastes** are decontaminated, and radiation **levels** are measured to classify the wastes into groups of decontaminated wastes of different radiation levels. Containers enable storage of each classified group of decontaminated waste, with a display indicating radiation level of material stored in each container.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a radioactive waste **management data** provision method.

USE - For processing radioactive wastes from nuclear power plant, and for processing high **level radioactive wastes**, ultra-low **level radioactive waste**, and uranium waste from research laboratory.

ADVANTAGE - The novel method reduces cost of further processing of **radioactive waste**, since **waste** is classified after decontamination and the radiation **level** of material in each container is known.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining the above radioactive waste processing routine. (Drawing includes non-English language text).

pp; 18 DwgNo 1/7

Title Terms: RADIOACTIVE; WASTE; PROCESS; METHOD; NUCLEAR; POWER; PLANT; CONTAINER; DISPLAY; RADIATE; LEVEL; DECONTAMINATE; CLASSIFY; WASTE; STORAGE; CONTAINER

Derwent Class: K07; P43; S02; T01; X14

International Patent Class (Main): G21F-009/36

International Patent Class (Additional): B09B-001/00; B09B-005/00; G06F-017/60

File Segment: CPI; EPI; EngPI

9/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014000751 **Image available**
WPI Acc No: 2001-484965/200153
XRAM Acc No: C01-145690

Management of dismantling of nuclear power plant, involves computing radioactive radiation energy level of each component before dismantling nuclear power plant

Patent Assignee: TOSHIBA ENG KK (TOSB); TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001141887	A	20010525	JP 99318999	A	19991110	200153 B

Priority Applications (No. Type Date): JP 99318999 A 19991110

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
JP 2001141887	A		17	G21F-009/30	

Abstract (Basic): JP 2001141887 A

NOVELTY - The amount of radiation of radioactive energy of each portion to be dismantled is specified, before dismantling a nuclear power plant. Based on the energy **level**, dismantled components are accommodated in the **container** containing **radioactive waste** material, for shipment.

USE - Dismantling a nuclear power station.

ADVANTAGE - Performs primary storage of dismantled **radioactive waste** material correctly due to specifying radioactive energy **level** of the portion before dismantling.

DESCRIPTION OF DRAWING(S) - The figure shows a functional block diagram showing the **data management** of a storage container used in the management of nuclear power plant dismantling. (Drawing includes non-English language text).

pp; 17 DwgNo 20/23

Title Terms: MANAGEMENT; DISMANTLE; NUCLEAR; POWER; PLANT; COMPUTATION;
RADIOACTIVE; RADIATE; ENERGY; LEVEL; COMPONENT; DISMANTLE; NUCLEAR; POWER
; PLANT

Derwent Class: K07

International Patent Class (Main): G21F-009/30

International Patent Class (Additional): G21F-009/34

File Segment: CPI

Set	Items	Description
S1	1054922	ISOTOPE? OR RADIOACTI? OR RADIONUCLEO? OR PLUTONIUM OR TRANSURANIC OR UF6 OR U308 OR NEPTUNIUM OR PU239 OR PU240 OR NP-237
S2	229357	LLW OR HLW OR ILW OR S1(2N) (BYPRODUCT? OR WASTE? OR WATER? OR DISCARD? OR CONTAINER? OR DISPOSAL? OR POLLUTION?)
S3	17524233	LEVEL? OR RANGE? OR VALUE? OR LIMIT? OR BOUNDARY OR BOUNDARIES OR BOUNDS OR PARAMETER? OR RANGE?
S4	16869620	ASSAY? OR REPORT? OR DOCUMENT? OR ANALYSIS
S5	15477939	TEST? OR EVALUAT? OR VERIF? OR CHECK? OR EXAMIN?
S6	4758821	FLAG? OR REROUTE? OR ROUTE? OR SEND? OR MARK? OR DELIVER?
S7	7326	(FURTHER OR ADVANCED OR PHYSICAL OR SCIENTIFIC OR EXPERT OR INDEPENDENT) () REVIEW?
S8	45345	S2 (10N) S3
S9	3456	S8 (10N) S4
S10	397	S9 (8N) (S5 OR S6)
S11	0	S9 (S) S7
S12	57	S9 (10N) REVIEW?
S13	0	S9 AND S5 AND S6 AND S7
S14	2	S8 AND S4 AND S5 AND S6 AND S7
S15	13	S2 AND S3 AND S4 AND S5 AND S6 AND S7
S16	12	S10 AND (DATABASE? OR DATABANK? OR DB OR OODB OR DBMS OR R-DB OR DATA() (BASE? OR BANK?))
S17	7	S10 AND S12
S18	32	S14 OR S15 OR S16 OR S17
S19	32	RD (unique items)
S20	28	S19 NOT PY>2001
File	5: Biosis Previews(R)	1969-2004/Aug W3 (c) 2004 BIOSIS
File	6: NTIS	1964-2004/Aug W3 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8: Ei Compendex(R)	1970-2004/Aug W2 (c) 2004 Elsevier Eng. Info. Inc.
File	29: Meteor. & Geoastro. Abs.	1970-2002/Jul (c) 2002 Amer. Meteorological Soc.
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Aug W3 (c) 2004 Inst for Sci Info
File	35: Dissertation Abs Online	1861-2004/Jul (c) 2004 ProQuest Info&Learning
File	40: Enviroline(R)	1975-2004/Jul
File	49: PAIS Int.	1976-2004/Jul (c) 2004 Public Affairs Information Service
File	50: CAB Abstracts	1972-2004/Jul (c) 2004 CAB International
File	58: GeoArchive	1974-2004/Jul (c) 2004 Geosystems
File	65: Inside Conferences	1993-2004/Aug W3 (c) 2004 BLDSC all rts. reserv.
File	94: JICST-EPlus	1985-2004/Jul W4 (c) 2004 Japan Science and Tech Corp (JST)
File	96: FLUIDEX	1972-2004/Aug (c) 2004 Elsevier Science Ltd.
File	98: General Sci Abs/Full-Text	1984-2004/Jul (c) 2004 The HW Wilson Co.
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Jul (c) 2004 The HW Wilson Co.
File	110: WasteInfo	1974-2002/Jul (c) 2002 AEA Techn Env.
File	143: Biol. & Agric. Index	1983-2004/Jul (c) 2004 The HW Wilson Co
File	144: Pascal	1973-2004/Aug W2 (c) 2004 INIST/CNRS
File	266: FEDRIP	2004/Jun Comp & dist by NTIS, Intl Copyright All Rights Res
File	292: GEOBASE(TM)	1980-2004/Aug B1 (c) 2004 Elsevier Science Ltd.
File	369: New Scientist	1994-2004/Aug W2 (c) 2004 Reed Business Information Ltd.

File 370:Science 1996-1999, Vol W3
(c) 1999 AAAS

File 399:CA SEARCH(R) 1967-2004/UD=14108
(c) 2004 American Chemical Society

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 624:McGraw-Hill Publications 1985-2004/Aug 19
(c) 2004 McGraw-Hill Co. Inc

20/5/2 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS
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2146900 NTIS Accession Number: DE99050522/XAB

WRAP low level waste (LLW) glovebox operational test report

Kersten, J. K.

Fluor Daniel Hanford Inc., Richland, WA (United States).

Corp. Source Codes: 888888888

Sponsor: Department of Energy, Washington, DC.

Report No.: HNF-SD-W026-OTR-015

19 Feb 1998 440p

Languages: English

Journal Announcement: USGRDR0003; NSA0003

Sponsored by Department of Energy, Washington, DC.

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located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A20/MF A04

Country of Publication: United States

Contract No.: AC06-96RL13200

The Low Level Waste (LLW) Process Gloveboxes are designed to: receive a 55 gallon drum in an 85 gallon overpack in the Entry glovebox (GBIOI); and open and sort the waste from the 55 gallon drum, place the waste back into drum and relid in the Sorting glovebox (GB 102). In addition, waste which requires further examination is transferred to the LLW RWM Glovebox via the Drath and Schraeder Bagless Transfer Port (DO-07-201) or sent to the Sample Transfer Port (STC); crush the drum in the Supercompactor glovebox (GB 104); place the resulting puck (along with other pucks) into another 85 gallon overpack in the Exit glovebox (GB 105). The status of the waste items is tracked by the Data Management System (DMS) via the Plant Control System (PCS) barcode interface. As an item is moved from the entry glovebox to the exit glovebox, the Operator will track an items location using a barcode reader and enter any required data on the DMS console. The Operational Test Procedure (OTP) will perform evolution's using the Plant Operating Procedures (POP) in order to verify that they are sufficient and accurate for controlled glovebox operation.

Descriptors: Low-level Radioactive Wastes; *Radioactive Waste Management; *Gloveboxes; Remote Handling; Operation; **Data Base** Management

Identifiers: EDB/420203; EDB/052000; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity)

20/5/6 (Item 6 from file: 6)

DIALOG(R)File 6:NTIS

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1945465 NTIS Accession Number: DE96001561

Field test plan: Buried waste technologies, Fiscal Year 1995

Heard, R. E. ; Hyde, R. A. ; Engleman, V. S. ; Evans, J. D. ; Jackson, T. W.

Lockheed Idaho Technologies Co., Idaho Falls.

Corp. Source Codes: 110122000; 9533784

Sponsor: Department of Energy, Washington, DC.

Report No.: INEL-95/0233

Jun 95 73p

Languages: English

Journal Announcement: GRAI9613; ERA9618

Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A05/MF A01

Country of Publication: United States

Contract No.: AC07-94ID13223

The Fiscal Year 1995 effort is to deploy and test multiple technologies from four functional areas of buried waste remediation: site characterization, waste characterization, retrieval, and treatment. This document is the basic operational planning document for the deployment and testing of the technologies that support the field testing in Fiscal Year 1995. Discussed in this document are the scope of the tests; purpose and objective of the tests; organization and responsibilities; contingency plans; sequence of activities; sampling and data collection; document control; analytical methods; data reduction, validation, and verification; quality assurance; equipment and instruments; facilities and utilities; health and safety; residuals management; and regulatory management.

Descriptors: Remedial Action; *Storage Facilities; Alpha-Bearing Wastes; Chemical Analysis; Contamination Regulations; Data **Analysis** ; **Data Base** Management; **Field Tests** ; Hazardous Materials; Low- **Level Radioactive Wastes** ; Measuring Instruments; Planning; Radiation Protection; **Radioactive Waste** Processing; **Radioactive Waste** Storage; Sampling; Technology Utilization; Underground Storage; Waste Retrieval

Identifiers: EDB/054000; EDB/052000; NTISDE

Section Headings: 77F (Nuclear Science and Technology--Radiation Shielding, Protection, and Safety); 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity)

20/5/8 (Item 8 from file: 6)

DIALOG(R) File 6:NTIS

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1505689 NTIS Accession Number: DE90005954

Data quality assurance controls through the WIPP (Waste Isolation Pilot Plant) in situ data acquisition, analysis, and management system

Munson, D. E. ; Ball, J. R. ; Jones, R. L.

Sandia National Labs., Albuquerque, NM.

Corp. Source Codes: 068123000; 9511100

Sponsor: Department of Energy, Washington, DC.

Report No.: SAND-88-2845C; CONF-900406-17

1990 14p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9014; ERA9026

International conference for high-level radioactive waste management, Las Vegas, NV (USA), 8-12 Apr 1990. Sponsored by Department of Energy, Washington, DC.

Paper copy only, copy does not permit microfiche production. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03

Country of Publication: United States

Contract No.: AC04-76DP00789

Assurance of data quality for the in situ tests fielded at the Waste Isolation Pilot Plant is of critical importance. These tests supply the information for development and verification of the technology required for construction of a radioactive waste repository in bedded salt. The tests are some of the largest ever fielded in an underground facility. To assure that the extensive output generated by the tests is compatible with the high standards of quality required, a major project task was undertaken for the acquisition, control, and preservation of all the associated in situ test **databases**, with the principal emphasis on the very large thermal/structural in situ tests. In order to accomplish this task the WIPP In Situ Data Acquisition, Analysis, and Management System was put into place. The system provides for quality control of the test **databases** and certified test data throughout the duration of the tests. 13 refs., 14 figs., 3 tabs.

Descriptors: Data Acquisition Systems; *Data **Analysis** ; * Data **Base** Management; *High- **Level** **Radioactive** **Wastes** ; * **Radioactive** **Waste** **Disposal** ; *WIPP; Data Acquisition; Data; Field **Tests** ; Planning; Quality Assurance; Technology Assessment; Underground Disposal; Meetings

Identifiers: *Salt deposits; *Radioactive waste management; EDB/052002; EDB/990300; Safeguards; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity); 68F (Environmental Pollution and Control--Radiation Pollution and Control)

20/5/10 (Item 10 from file: 6)

DIALOG(R) File 6:NTIS

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1470528 NTIS Accession Number: DE89016357

Recommended Format and Content for DOE (Department of Energy) Low-Level Waste Disposal Facility Radiological Performance Assessment Reports

Case, M. J. ; Dodge, R. L. ; Frangos, T. G. ; Hansen, W. R. ; Kennedy, W. E.

EG and G Idaho, Inc., Idaho Falls.

Corp. Source Codes: 046580000; 9507781

Sponsor: Department of Energy, Washington, DC.

Report No.: DOE/LLW-81; MISC-89037

Apr 89 6p

Languages: English

Journal Announcement: GRAI9002; NSA0000

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: AC07-76ID01570

As required by DOE Order 5820.2A, an Oversight and Peer Review Panel has been formed to **review** radiological performance assessments for disposal of **low-level radioactive waste** at DOE facilities. The Panel has prepared this **report**, which contains a recommended format and content for radiological performance assessment reports for Department of Energy sites, to promote consistency in preparation of the assessments and to facilitate Panel review. In addition to the recommended format and content, the Panel recommends the use guides for planning and executing the performance assessment.

Descriptors: **Low-Level Radioactive Wastes ; *Performance Testing ; *Ground Disposal; Compliance; Reporting Requirements**

Identifiers: ERDA/052002; ERDA/053000; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity); 97Q (Energy--Selected Studies In Nuclear Technology)

20/5/11 (Item 11 from File: 6)
DIALOG(R) File 6:NTIS
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1417579 NTIS Accession Number: DE89001575

Systems Analysis Support to the Waste Management Technology Center

Rivera, A. L. ; Osborne-Lee, I. W. ; DePaoli, S. M.

Oak Ridge National Lab., TN.

Corp. Source Codes: 021310000; 4832000

Sponsor: Department of Energy, Washington, DC.

Report No.: CONF-881054-19

1988 11p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI8908; NSA1400

Annual DOE model conference, Oak Ridge, TN, USA, 3 Oct 1988.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: AC05-84OR21400

This paper describes a systems analysis concept being developed in support of waste management planning and analysis activities for Martin Marietta Energy Systems, Inc. (Energy Systems) sites. This integrated systems model serves as a focus for the accumulation and documentation of technical and economic information from current waste management practices, improved operations projects, remedial actions, and new system development activities. The approach is generic and could be applied to a larger group of sites. This integrated model is a source of technical support to waste management groups in the Energy Systems complex for integrated waste management planning and related technology assessment activities. This problem-solving methodology for low-level waste (LLW) management is being developed through the Waste Management Technology Center for the Low-Level Waste Disposal, Development, and Demonstration (LLWDDD) Program. In support of long-range planning activities, this capability will include the development of management support tools such as specialized systems models, **data bases**, and information systems. These management support tools will provide continuing support in the identification and definition of technical and economic uncertainties to be addressed by technology demonstration programs. Technical planning activities and current efforts in the development of this system analysis capability for the LLWDDD Program are presented in this paper. 2 refs., 5 figs., 1 tab. (ERA citation 14:000207)

Descriptors: Information Systems; *Low- Level Radioactive Wastes ; *Technology Utilization; *Planning; * Radioactive Waste Management; **Data Base** Management; **Documentation** ; **Evaluation** ; Ground Disposal; Mathematical Models; Remedial Action; Socio-Economic Factors; Systems Analysis

Identifiers: ERDA/052002; ERDA/990230; ERDA/990300; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity)

20/5/12 (Item 12 from file: 6)
DIALOG(R) File 6:NTIS
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1387316 NTIS Accession Number: NUREG/CR-5054

**Recommendations to the NRC (Nuclear Regulatory Commission) for Review
Criteria for Alternative Methods of Low-Level Radioactive Waste Disposal:
Environmental Monitoring and Surveillance Programs**

(Technical rept)

Denham, D. H. ; Stenner, R. D. ; Eddy, P. A. ; Jaquish, R. E. ; Ramsdell,
J. V.

Battelle Pacific Northwest Labs., Richland, WA.

Corp. Source Codes: 048335000

Sponsor: Nuclear Regulatory Commission, Washington, DC. Office of Nuclear
Material Safety and Safeguards.

Report No.: PNL-6553

Jul 88 297p

Languages: English

Journal Announcement: GRAI8821

Also available from Supt. of Docs. Sponsored by Nuclear Regulatory
Commission, Washington, DC. Office of Nuclear Material Safety and
Safeguards.

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customers); (703)605-6000 (other countries); fax at (703)321-8547; and
email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.

NTIS Prices: PC A13/MF A01

Country of Publication: United States

Licensing of a facility for low-level radioactive waste disposal requires
the review of the environmental monitoring and surveillance programs. A set
of review criteria is recommended for the U.S. Nuclear Regulatory
Commission (NRC) staff to use in each monitoring phase-- preoperational,
operational, and postoperational-- for evaluating radiological and selected
nonradiological parameters in proposed environmental monitoring and
surveillance programs at low-level waste disposal facilities. Applicable
regulations, industry standards, and technical guidance on low- **level
radioactive waste** are noted throughout the **document** . **Review
checklists** are provided for NRC use in **evaluating** the adequacy of
environmental monitoring and surveillance programs for compliance with
applicable regulations.

Descriptors: Standards; Recommendation; Regulations

Identifiers: *Radioactive waste facilities; *Radioactive waste disposal;
Environmental monitoring; Low-level radioactive wastes; NTISNUREG; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes
and Radioactivity); 97R (Energy--Environmental Studies)

20/5/13 (Item 13 from file: 6)

DIALOG(R) File 6:NTIS

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1384132 NTIS Accession Number: DE88007727

Regional LLRW (Low-Level Radioactive Waste) Processing Alternatives Applying the DOE REGINALT (Regional Waste Management Alternatives Analysis Model) Systems Analysis Model

Beers, G. H.

EG and G Idaho, Inc., Idaho Falls.

Corp. Source Codes: 046580000; 9507781

Sponsor: Department of Energy, Washington, DC.

Report No.: EGG-M-31186; CONF-870306-74

1987 5p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI8820; NSA1300

Waste management '87, Tucson, AZ, USA, 1 Mar 1987.

Paper copy only, copy does not permit microfiche production. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: AC07-76ID01570

The DOE Low-Level Waste Management Program has developed a computer-based decision support system of models that may be used by nonprogrammers to **evaluate** a comprehensive approach to commercial low-level **radioactive waste** (LLRW) management. REGINALT (Regional Waste Management Alternatives **Analysis** Model) implementation will be described as the model is applied to a hypothetical regional compact for the purpose of examining the technical and economic potential of two waste processing alternatives. Using waste from a typical regional compact, two specific regional waste processing centers will be compared for feasibility. Example 1 will assume that a regional supercompaction facility is being developed for the region. Example 2 will assume that a regional facility with both supercompaction and incineration is specified. Both examples will include identical disposal facilities, except that capacity may differ due to variation in volume reduction achieved. The two examples will be compared with regard to volume reduction achieved, estimated occupational exposure for the processing facilities, and life cycle costs per generated unit waste. A base case will also illustrate current disposal practices. The results of the comparisons will be evaluated, and other steps, if necessary, for additional decision support will be identified. (ERA citation 13:030062)

Descriptors: Low-Level Radioactive Wastes; *Radioactive Waste Management; Compact Commissions; Compactors; Comparative Evaluations; **Data Base** Management; Decision Making; Incinerators; Life-Cycle Cost; Mathematical Models; Occupational Exposure; Radioactive Waste Disposal; Radioactive Waste Processing; Radioactive Waste Storage; Volume

Identifiers: ERDA/052002; ERDA/053000; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity)

20/5/14 (Item 14 from file: 6)
DIALOG(R) File 6:NTIS
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1347831 NTIS Accession Number: DE88000948

Waste Examination Assay Facility Operations: TRU Waste Certification

Schultz, F. J. ; Caylor, B. A. ; Coffey, D. E. ; Phoenix, L. B.

Oak Ridge National Lab., TN.

Corp. Source Codes: 021310000; 4832000

Sponsor: Department of Energy, Washington, DC.

Report No.: CONF-871075-9

1987 7p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI8807; NSA1300

Oak Ridge model conference on waste problems, Oak Ridge, TN, USA, 13 Oct 1987.

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: AC05-84OR21400

The ORNL Waste Examination Assay Facility (WEAF) was established to nondestructively assay (NDA) transuranic (TRU) waste generated at Oak Ridge National Laboratory (ORNL). The present facility charter encompasses the NDA and nondestructive **examination** (NDE) of both TRU and low- **level** wastes (**LLW**). Presently, equipment includes a Neutron **Assay** System (NAS), a Segmented Gamma Scanner (SGS), a drum-sized Real-Time Radiography (RTR) system, and a Neutron Slab Detector (NSD). The first three instruments are computer interfaced. Approximately 2300 TRU waste drums have been assayed with the NAS and the SGS. Another 3000 TRU and LLW drums have been examined with the RTR unit. Computer **data bases** have been developed to collate the large amount of data generated during the assays and examinations. 6 refs., 1 tab. (ERA citation 13:003049)

Descriptors: *Alpha-Bearing Wastes; *Low-Level Radioactive Wastes; Computerized Simulation; Gamma Detection; Neutron Detectors; Nondestructive Analysis; Radioactive Waste Processing; X-Ray Emission Analysis

Identifiers: ERDA/052001; ERDA/053000; ERDA/510300; NTISDE

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes and Radioactivity)

20/5/15 (Item 15 from file: 6)
DIALOG(R) File 6:NTIS
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1179404 NTIS Accession Number: NUREG/CR-4101

Assay of Long-Lived Radionuclides in Low-Level Wastes from Power Reactors
(Technical rept. Jun 82-Feb 85)

Cline, J. E. ; Noyce, J. R. ; Coe, L. J. ; Wright, K. W.

Science Applications International Corp., Rockville, MD.

Corp. Source Codes: 083509000

Sponsor: Nuclear Regulatory Commission, Washington, DC. Office of Nuclear
Material Safety and Safeguards.

Apr 85 617p

Languages: English

Journal Announcement: GRAI8516

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Springfield, VA, 22161, USA.

NTIS Prices: PC A99/MF A01

Country of Publication: United States

The 10 CFR Part 61 waste classification system includes several nuclides
which are difficult to assay without expensive radiochemical methods. In
order for waste generators to classify wastes practically, NRC Staff has
recommended the use of correlation factors to scale the
difficult-to-measure nuclides with nuclides which can be measured more
easily (i.e., gamma emitters such as 60Co or 137Cs). In this study, Science
Applications International Corporation (SAIC) performed complete
radiochemical assays for all the 10 CFR Part 61 waste classification
nuclides on over 100 samples. These data, along with almost 800 other
samples in the SAIC **data base**, were used to assess the validity of
correlation factors suggested for use for nuclear power plant wastes.
Specific generic correlation factors are recommended with other approaches
to correlate nuclides for which generic scaling factors are not defensible.

Descriptors: *Nuclear power plants

Identifiers: **Radioactive waste** management; *Low-level **radioactive**
wastes ; *Radioisotopes; *Radiochemical **analysis** ; Correlations;
Comparative **evaluations** ; Classification; NTISNUREG

Section Headings: 77G (Nuclear Science and Technology--Radioactive Wastes
and Radioactivity); 99E (Chemistry--Photo and Radiation Chemistry); 97Q
(Energy--Selected Studies In Nuclear Technology)

0693454

ACNW TOUTS NEED FOR INDEPENDENT EXPERTS TO ASSIST IN DEVELOPING LLW SITES

Inside NRC August 21, 1995; Pg 15; Vol. 17, No. 17
Journal Code: NRC ISSN: 0149-0252
Word Count: 480

BYLINE:

Richard R. Zuercher, Washington

TEXT:

The NRC Advisory Committee on Nuclear Waste (ACNW) says an independent panel of experts to review scientific and technical data for proposed low-level radioactive waste (LLW) sites from the inception of state siting activities may make the difficult job of developing new facilities easier and more successful.

In an August 10 letter to NRC Chairman Shirley Jackson, ACNW head Paul Pomeroy said the waste panel came to this conclusion after being briefed by a participant of the National Academy of Sciences' report on the likelihood for off-site migration of radionuclides from the proposed Ward Valley, California site, and listening to past briefings of troubled siting activities in Illinois, Texas, and Nebraska.

The NAS panel earlier this year gave Ward Valley a qualified clean bill of health, suggesting that California licensing officials and site developer US Ecology monitor the site more closely (INRC, 15 May, 4).

"The NAS panel identified a key lesson that the committee strongly believes is broadly applicable; i.e., the process of developing information on a potential site of a low-level waste disposal facility should be accompanied, preferably from its initiation, by an independent, ongoing peer review that is focused on the scientific and technical quality and completeness of the field investigations, the analytical program, and the planning of the work that accompanies them," Pomeroy wrote. "Such a review should be should be conducted by a recognized and demonstrably competent panel of experts."

Pomeroy noted that an important benefit that might come from such an independent review process would be that uncertainties and unrealistic assumptions in the site qualification analysis which may raise red flags for licensing authorities and intervenors would be identified before license application submittal. The site evaluation process should be a technical analysis that is comprehensible and defenseable in support of site suitability conclusions, he said.

"We believe that a peer review panel functioning as long as possible in parallel to the investigations would measurably enhance the quality of the final outcome and its visibility," Pomeroy said.

While the committee understands that new LLW disposal facilities being developed in the near future probably will be under the purview of NRC agreement states, it believes that the NRC staff should provide a plan describing how to form peer panels for states in which LLW facilities are contemplated, he said.

One long-time LLW official who asked to remain anonymous dismissed the idea of having an independent panel of experts to assist in the siting process, saying it would add another expensive layer of bureaucracy to the siting process and essentially duplicate the efforts of state licensing officials, who are supposed to be competent, independent experts.

The LLW official said the troubles encountered by California in its attempt to site Ward Valley are merely political, as the NAS confirmed that licensing experts within the state Department of Health Services did a

thorough job evaluating US Ecology's license application.
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COMPANY NAMES (DIALOG GENERATED): ACNW ; NRC Advisory Committee on Nuclear
Waste

Set	Items	Description
S1	64717	ISOTOPE? OR RADIOACTI? OR RADIONUCLEO? OR PLUTNONIUM OR TR- ANSURANIC OR UF6 OR U308 OR NEPTUNIUM OR PU239 OR PU240 OR NP- 237
S2	3248	LLW OR HLW OR ILW OR S1(2N) (BYPRODUCT? OR WASTE? OR WATER? OR DISCARD? OR CONTAINER? OR DISPOSAL? OR POLLUTION?)
S3	1489980	LEVEL? OR RANGE? OR VALUE? OR LIMIT? OR BOUNDARY OR BOUNDA- RIES OR BOUNDS OR PARAMETER? OR RANGE?
S4	1901415	ASSAY? OR REPORT? OR DOCUMENT? OR ANALYSIS
S5	1840485	TEST? OR EVALUAT? OR VERIF? OR CHECK? OR EXAMIN?
S6	704171	FLAG? OR REROUTE? OR ROUTE? OR SEND? OR MARK? OR DELIVER?
S7	2317	(FURTHER OR ADVANCED OR PHYSICAL OR SCIENTIFIC OR EXPERT OR INDEPENDENT) () REVIEW?
S8	442	S2 (10N) S3
S9	51	S8 (10N) S4
S10	1	S9 (8N) (S5 OR S6)
S11	0	S9 (S) S7
S12	0	S9 (10N) REVIEW?
S13	1	S10 OR S11 OR S12
S14	0	S9 AND IC=G06F-012?
S15	1	S13 OR S14
S16	25	S9(S) (S5 OR S6)
S17	2	S9(S) REVIEW?
S18	0	(S16 OR S17) AND IC=G06F?
S19	5	S9 AND (DATABASE? OR DATABANK? OR DATA() (BASE? OR BANK?) OR DB OR DBMS OR RDB OR OODB)
S20	86	S2(2N) (DOCUMENT? OR ASSAY? OR REPORT? OR FORM OR FORMS)
S21	18	S20(S) S3
S22	1	S21 AND IC=G06F?
S23	7	S22 OR S19 OR S17 OR S15
S24	7	IDPAT (sorted in duplicate/non-duplicate order)
S25	6	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2004/Aug W03
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File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805
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00901997

NUCLEIC ACIDS AND PROTEINS FROM STREPTOCOCCUS GROUPS A & B

ACIDES NUCLEIQUES ET PROTEINES DERIVES DES GROUPES DE STREPTOCOQUES A ET B

Patent Applicant/Assignee:

CHIRON S P A, Via Fiorentina, 1, I-53100 Siena, IT, IT (Residence), IT
(Nationality), (For all designated states except: US)
THE INSTITUTE FOR GENOMIC RESEARCH, 9712 Medical Center Drive, Rockville,
MD 20850, US, US (Residence), US (Nationality), (For all designated
states except: US)

Patent Applicant/Inventor:

TELFORD John, Chiron S.p.a, Via Fiorentina, 1, I-53100 Siena, IT, IT
(Residence), GB (Nationality), (Designated only for: US)
MASIGNANI Vega, Chiron S.p.a, Via Fiorentina, 1, I-53100 Siena, IT, IT
(Residence), IT (Nationality), (Designated only for: US)
MARGARIT Y ROS Immaculada, Chiron S.p.a, Via Fiorentina, 1, I-53100 Siena
, IT, IT (Residence), IT (Nationality), (Designated only for: US)
GRANDI Guido, Chiron S.p.a, Via Fiorentina, 1, I-53100 Siena, IT, IT
(Residence), IT (Nationality), (Designated only for: US)
FRASER CLAIRE, The Institute for Genomic Research, 9712 Medical Center
Drive, Rockville, MD 20850, US, US (Residence), US (Nationality),
(Designated only for: US)
TETTELIN Herve, The Institute for Genomic Research, 9712 Medical Center
Drive, Rockville, MD 20850, US, US (Residence), BE (Nationality),
(Designated only for: US)

Legal Representative:

HALLYBONE Huw George (et al) (agent), Carpmaels & Ransford, 43 Bloomsbury
Square, London WC1A 2RA, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200234771 A2-A3 20020502 (WO 0234771)
Application: WO 2001GB4789 20011029 (PCT/WO GB0104789)
Priority Application: GB 200026333 20001027; GB 200028727 20001124; GB
20015640 20010307

Designated States:

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 1058437

Fulltext Availability:

Detailed Description

Detailed Description

... 0000(Not Clear) < succ>

The protein has homology with the following sequences in the GENPEPT
database .

>GP:CAB15227 GB:Z99120 similar to hypothetical proteins [Bacillus
subtilis] Identities = 114/280 (40'-.), Positives...fusion). It was also
expressed in E. coli as a GST-fusion product. SDS-PAGE analysis of
total cell extract is 25shown inFigure 9 (lane 7; MW 47.6kDa). Purified
Thio...

Set	Items	Description
S1	53848	ISOTOPE? OR RADIOACTI? OR RADIONUCLEO? OR PLUTNONIUM OR TR- ANSURANIC OR UF6 OR U308 OR NEPTUNIUM OR PU239 OR PU240 OR NP- 237
S2	19713	LLW OR HLW OR ILW OR S1(2N)(BYPRODUCT? OR WASTE? OR WATER? OR DISCARD? OR CONTAINER? OR DISPOSAL? OR POLLUTION?)
S3	3256388	LEVEL? OR RANGE? OR VALUE? OR LIMIT? OR BOUNDARY OR BOUNDA- RIES OR BOUNDS OR PARAMETER? OR RANGE?
S4	378686	ASSAY? OR REPORT? OR DOCUMENT? OR ANALYSIS
S5	1100410	TEST? OR EVALUAT? OR VERIF? OR CHECK? OR EXAMIN?
S6	953146	FLAG? OR REROUTE? OR ROUTE? OR SEND? OR MARK? OR DELIVER?
S7	18	(FURTHER OR ADVANCED OR PHYSICAL OR SCIENTIFIC OR EXPERT OR INDEPENDENT) () REVIEW?
S8	2973	S2 AND S3
S9	58	S8 AND S4
S10	29	S9 AND (S5 OR S6)
S11	1	S9 AND S7
S12	2	S9 AND REVIEW?
S13	30	S10 OR S11 OR S12
S14	1	S9 AND IC=G06F-012?
S15	30	S13 OR S14
S16	22	S15 NOT AD>200010727
S17	22	IDPAT (sorted in duplicate/non-duplicate order)
S18	22	IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)		
(c) 2004 JPO & JAPIO		
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200453		
(c) 2004 Thomson Derwent		

18/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008916403

WPI Acc No: 1992-043672/199206

XRAM Acc No: C92-019116

**Determining radioactivity level of bulk waste - using geiger counter
array on frame with computer processing of data**

Patent Assignee: FISH H R A (FISH-I)

Inventor: FISH H R A; SAVAGE J E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2246660	A	19920205	GB 905639	A	19900313	199206 B

Priority Applications (No Type Date): GB 905639 A 19900313

Abstract (Basic): GB 2246660 A

Radioactivity **level** is determined by using an array of geiger counters mounted on a structural frame with fixed orientation, their number and predetermined collimation giving a detailed **analysis** of radioactivity from a vol. of contaminated waste within the array.

In partic., the counters are orientated on a framework to **test** and analyse **radioactive waste** held in standard size ISO or half ISO containers, the framework having openings at front and rear to allow the rapid throughput of the containers. The counters pref. output to a computer which analyses activity **levels** in relation to position.

USE/ADVANTAGE - Partic. for use in rehabilitating contaminated land, permits assessment of waste uniformity and detection of hot spots.

Dwg.0/1

Title Terms: DETERMINE; RADIOACTIVE; **LEVEL** ; BULK; WASTE; GEIGER; COUNTER;
ARRAY; FRAME; COMPUTER; PROCESS; DATA

Derwent Class: K07

International Patent Class (Additional): G21F-009/34

File Segment: CPI

18/5/18 (Item 18 from file: 347)
DIALOG(R) File 347:JAPIO
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03274460

METHOD FOR MEASURING CONCENTRATION OF ELEMENT

PUB. NO.: 02-249960 [JP 2249960 A]
PUBLISHED: October 05, 1990 (19901005)
INVENTOR(s): KAWAI AKIO
TAMURA TOSHIYUKI
TSUNODA AKIO
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 01-014104 [JP 8914104]
FILED: January 25, 1989 (19890125)
INTL CLASS: [5] G01N-023/06
JAPIO CLASS: 46.2 (INSTRUMENTATION -- **Testing**); 23.1 (ATOMIC POWER --
General); 32.5 (POLLUTION CONTROL -- **Radioactive Waste**
Treatment)
JAPIO KEYWORD: R115 (X-RAY APPLICATIONS)
JOURNAL: Section: P, Section No. 1147, Vol. 14, No. 581, Pg. 50,
December 26, 1990 (19901226)

ABSTRACT

PURPOSE: To effectively utilize measurement data and to improve the accuracy of an **analysis** by calculating the power **value** to be substituted with an unfixed coefficient in such a manner that a model function attains a optimum regression curve function and determining the concentration of the element to be measured.

CONSTITUTION: The term having the mass absorption coefficient of the element to be measured which is the constant intrinsic to every energy of photons or the product of the total sectional areas of the photons and the concentration of the element to be measured which is the unfixed coefficient is subtracted from the term which does not contain the concentration of the element to be measured and is continuous and smooth with the energy of the photons. The **value** to be substituted with the unfixed coefficient is calculated in such a manner that the model function attains the optimum regression curve function with respect to the relative count rate or relative transmittance measured with the resulted difference as the model function and the energy of the photons transmitting the measuring sample containing the element to be measured as a **parameter** .